

FIG. 1A - Prior Art

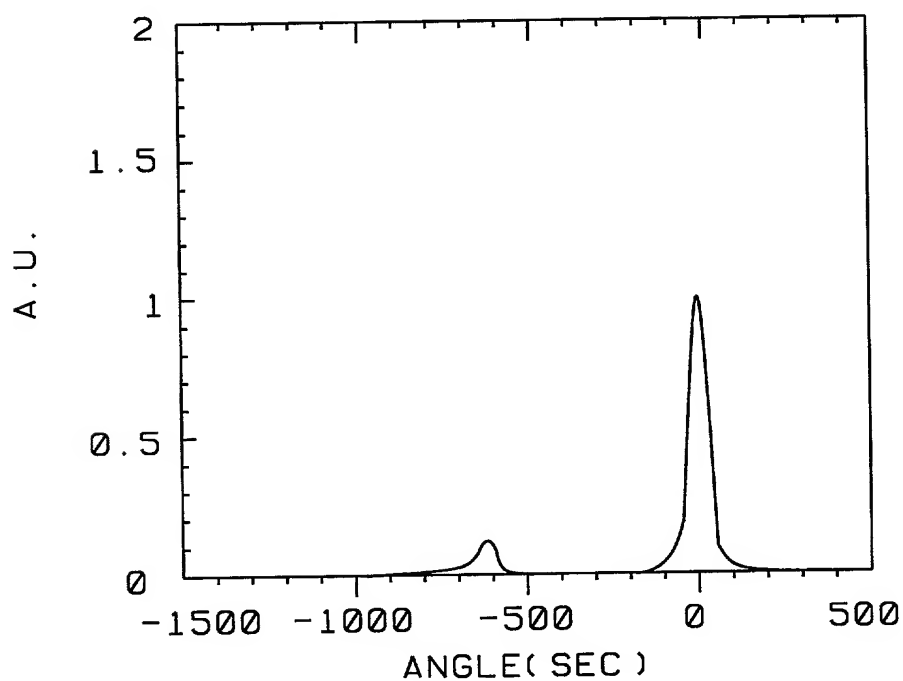


FIG. 1B - Prior Art

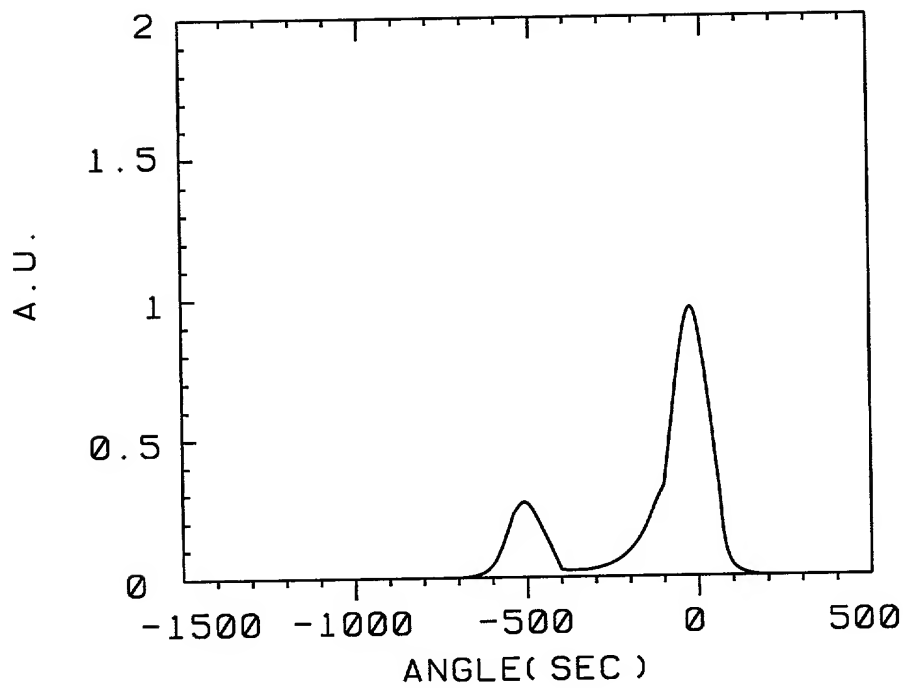


FIG. 1C - Prior Art

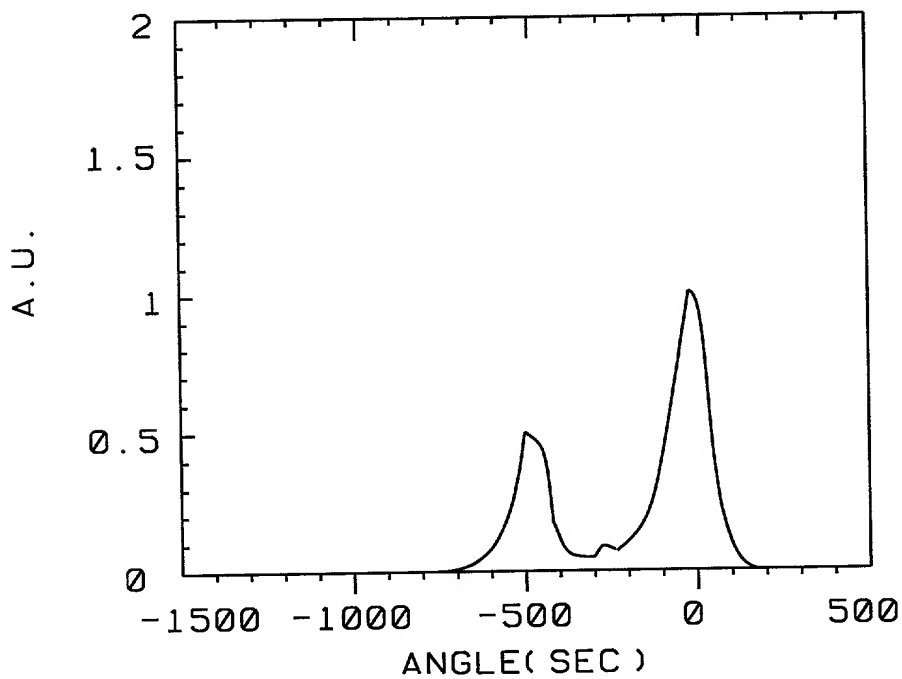


FIG. 1D - Prior Art

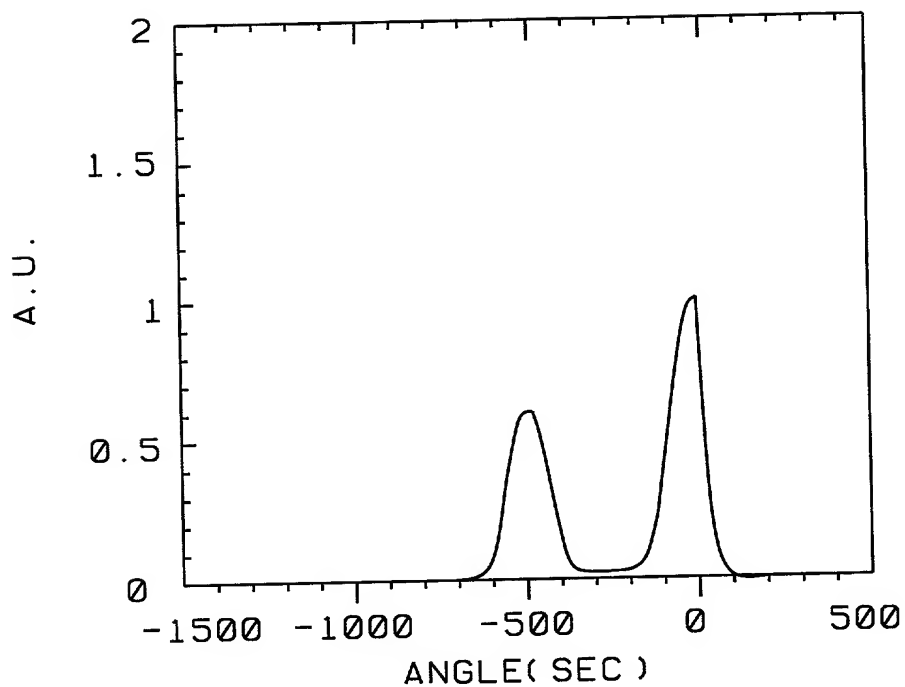


FIG. 1E - Prior Art

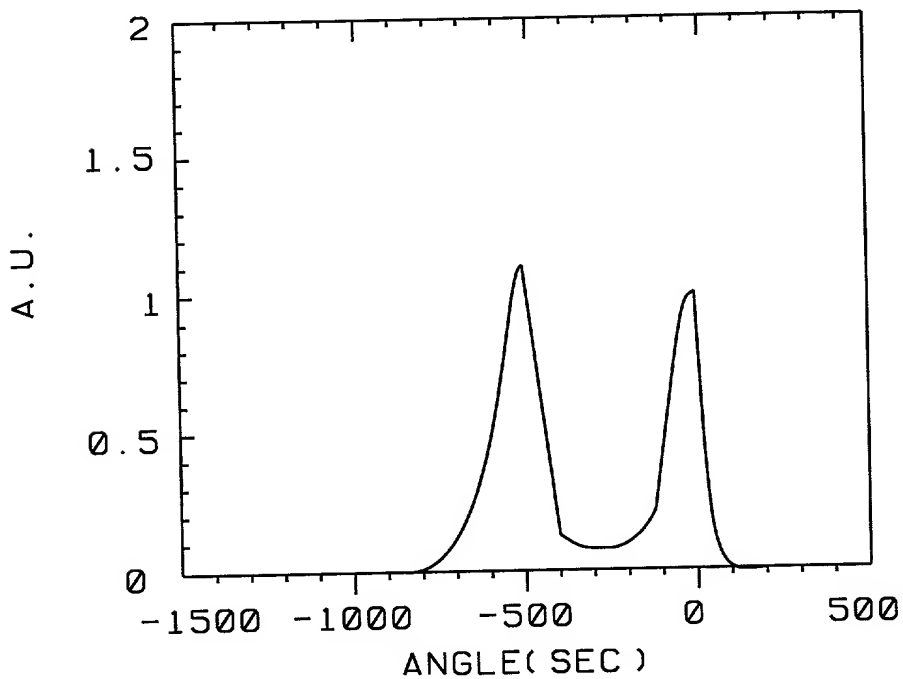


FIG. 1F - Prior Art

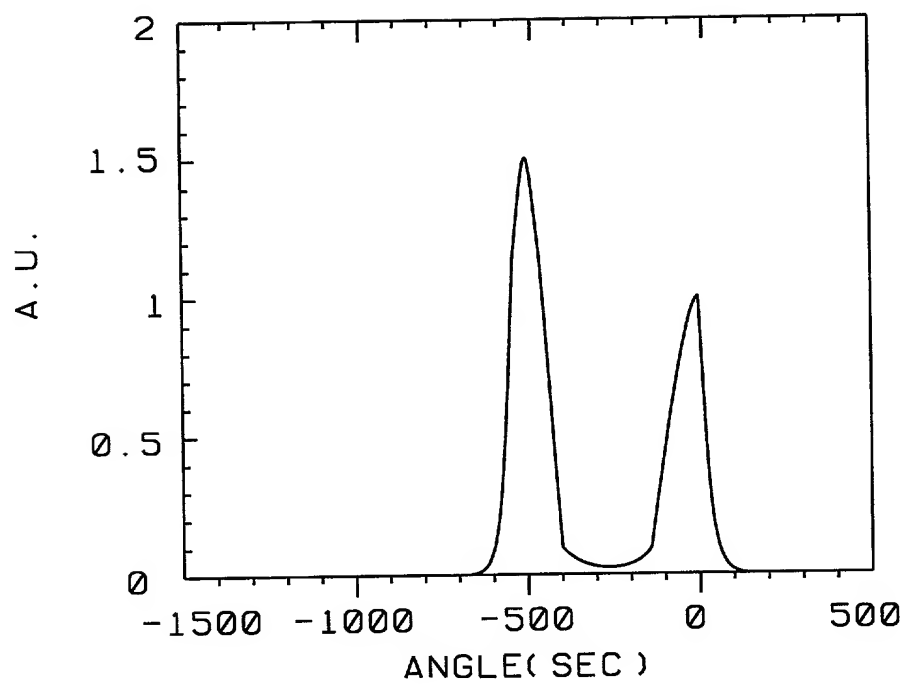
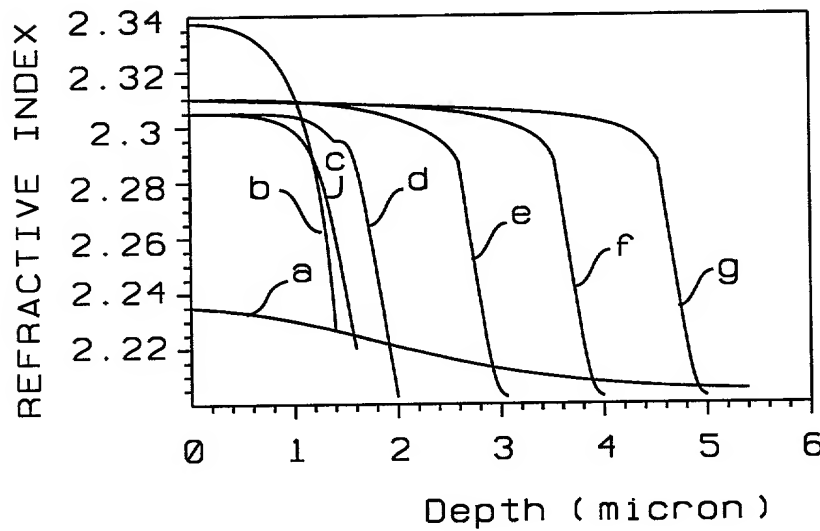


FIG. 1G - Prior Art

SURFACE
EXTRAORDINARY INDEX CHANGE

| SAMPLE | dn_e |
|--------|--------|
| a | 0.0321 |
| b | 0.1351 |
| c | 0.1009 |
| d | 0.1006 |
| e | 0.1045 |
| f | 0.1045 |
| g | 0.1053 |

FIG. 2 - Prior Art*FIG. 3 - Prior Art*

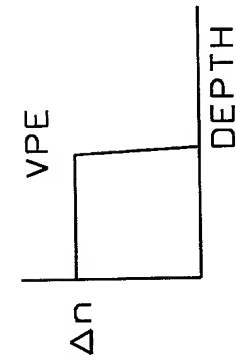


FIG. 4A

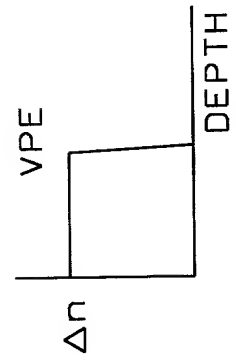


FIG. 5A

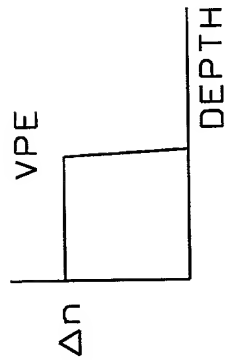


FIG. 6A

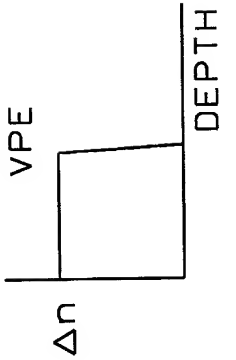


FIG. 7A

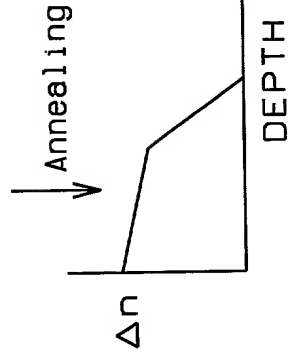


FIG. 4B

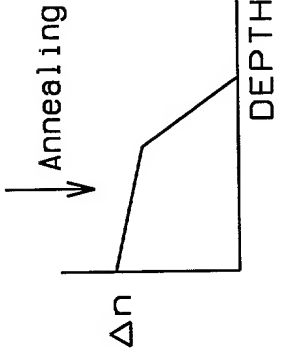


FIG. 5B

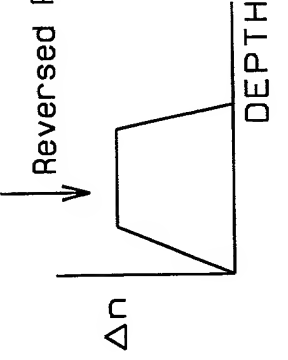


FIG. 6B

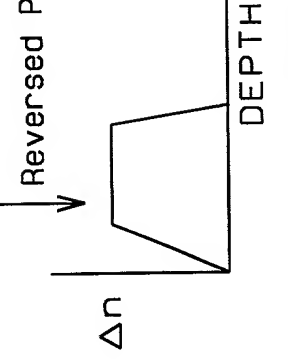


FIG. 7B

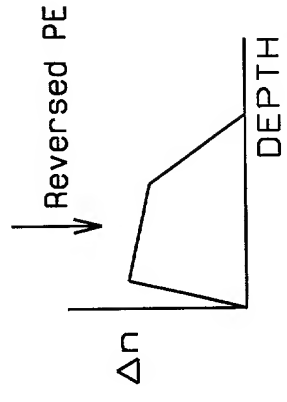


FIG. 5C

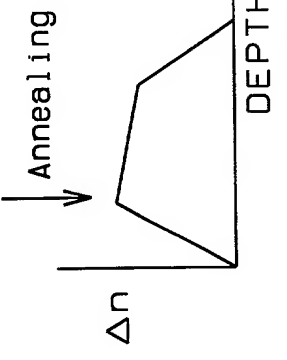


FIG. 7C

A-VPE CHANNEL WAVEGUIDE

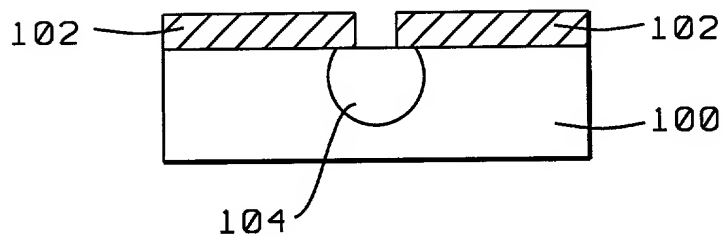


FIG. 8A

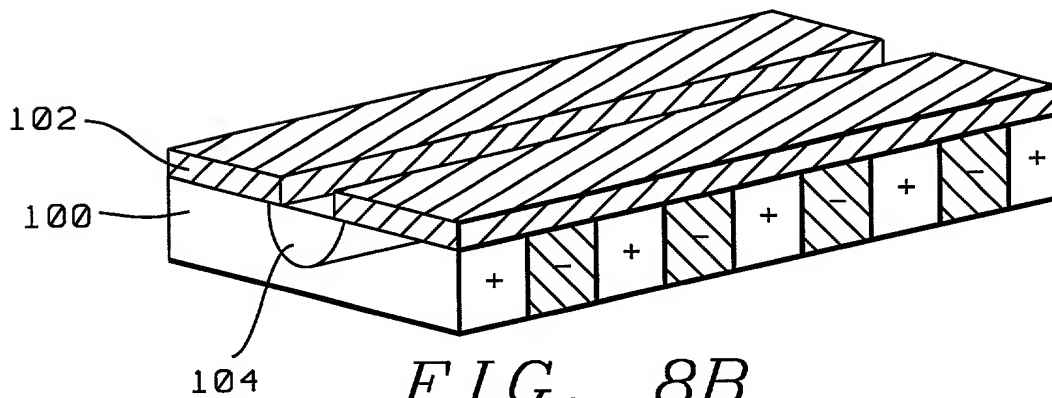


FIG. 8B

R-VPE CHANNEL WAVEGUIDE

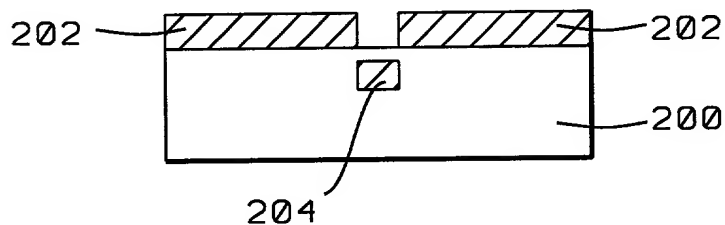


FIG. 8C

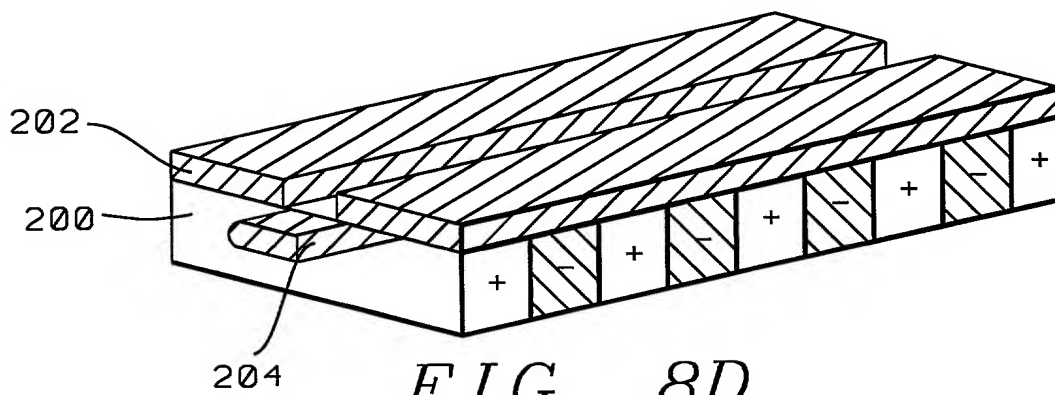
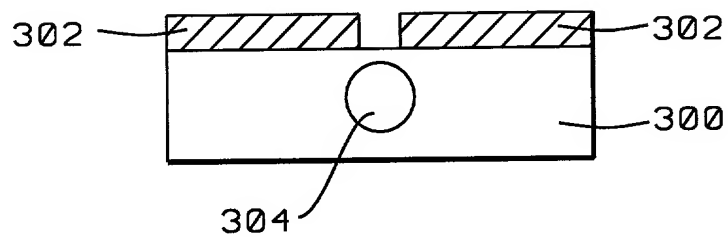
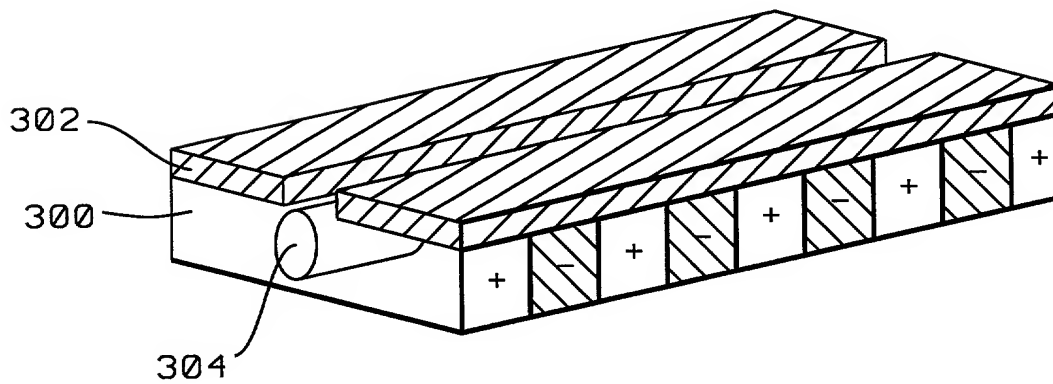
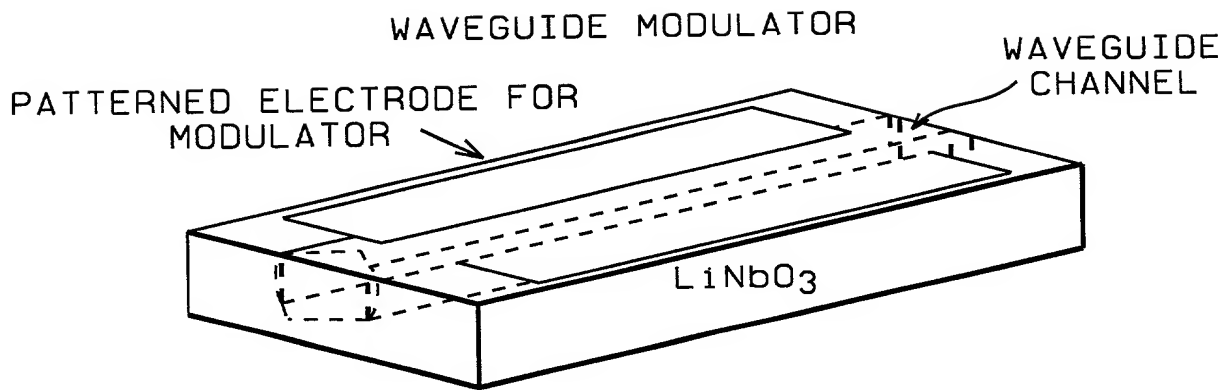
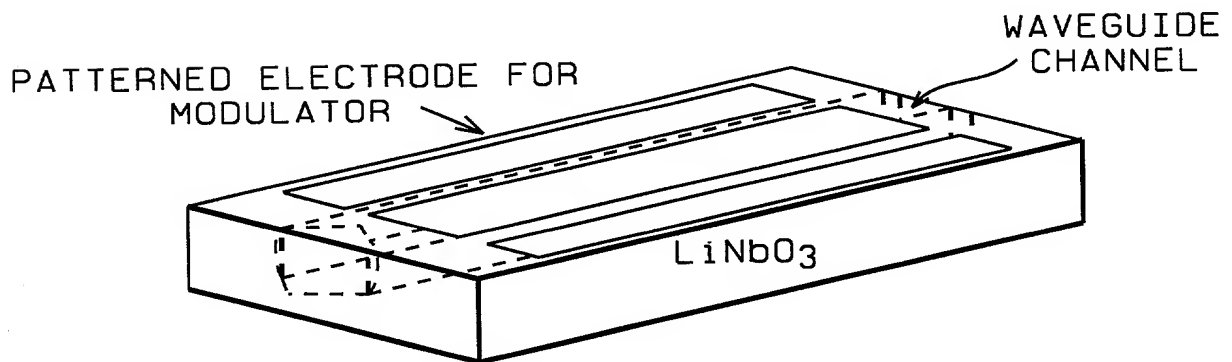


FIG. 8D

AR-VPE OR RA-VPE CHANNEL WAVEGUIDE

*FIG. 8E**FIG. 8F*

*FIG. 9A**FIG. 9B*

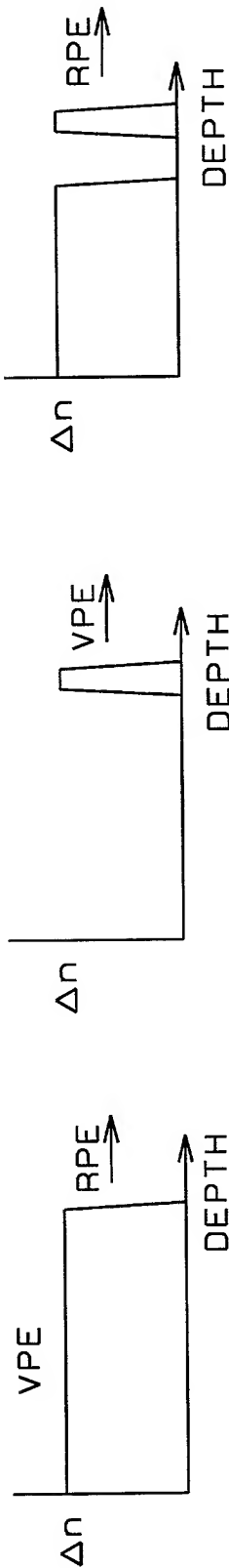


FIG. 10A

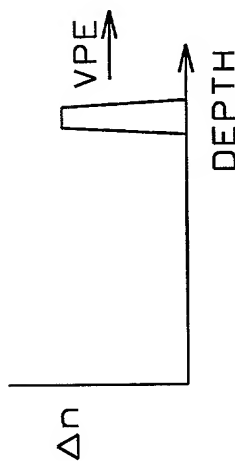


FIG. 10B

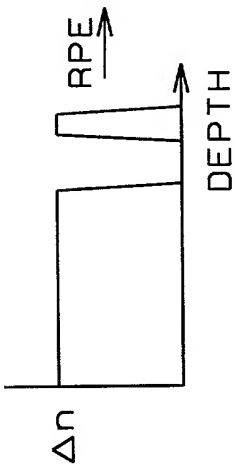


FIG. 10C

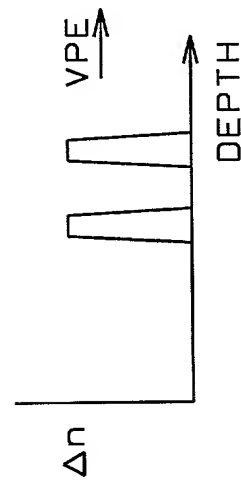


FIG. 10D

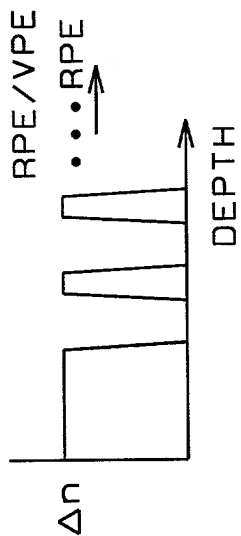


FIG. 10E

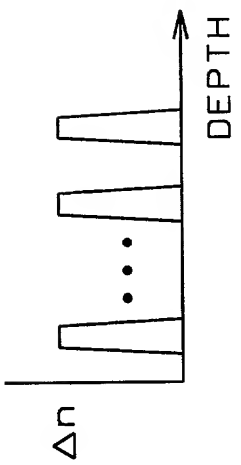


FIG. 10F

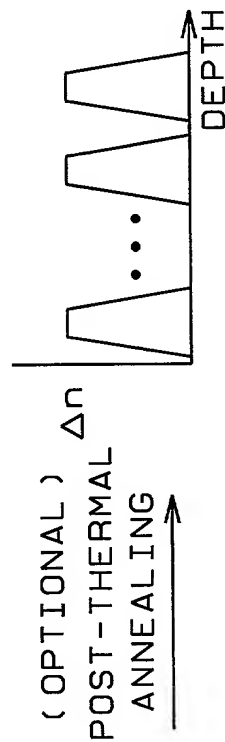
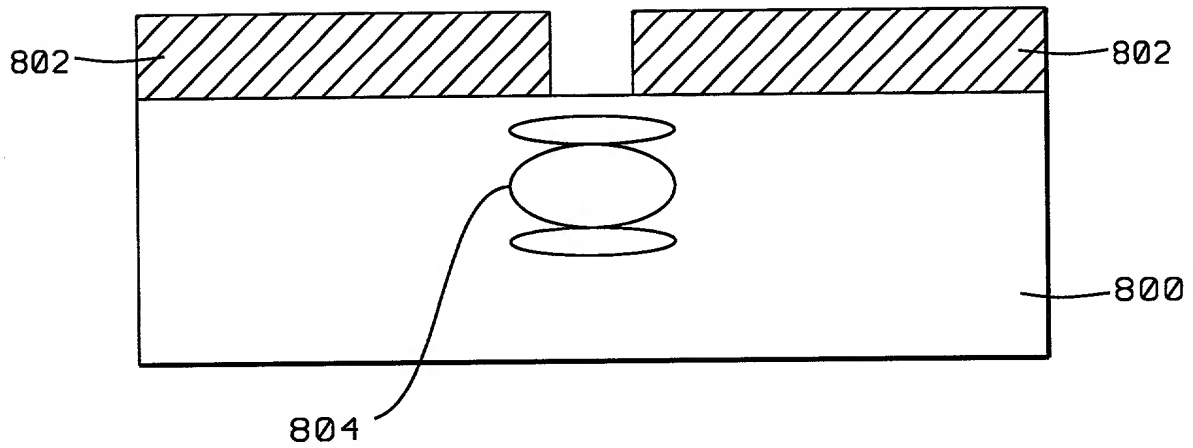
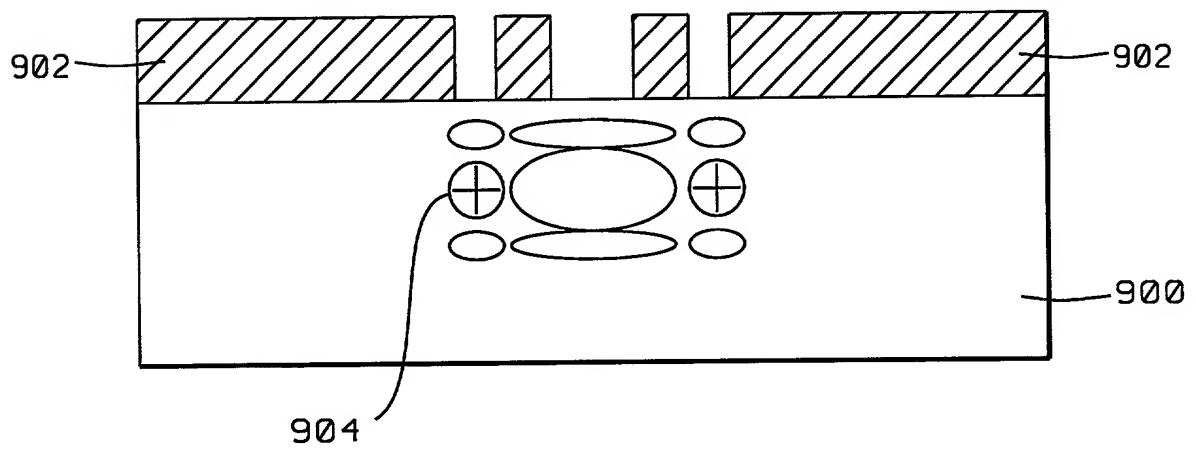


FIG. 10G

(OPTIONAL) POST-THERMAL ANNEALING

*FIG. 11A**FIG. 11B*